

# Bushnell®



MODEL LP520KB



MODEL LP623SBL

# PRIME™

## *LASER RANGEFINDER OWNER'S GUIDE*

Thank you for purchasing your new Bushnell® Prime™ Laser Rangefinder.

This manual will help you optimize your viewing experience by explaining how to utilize the rangefinder's features and how to care for it. Read the instructions carefully before using your rangefinder.

**⚠ WARNING: As with any laser device, it is not recommended to directly view the emissions for long periods of time with magnified lenses.**

## INTRODUCTION

Your Bushnell® Prime™ is an ultra thin, premium performing laser rangefinder comprised of the latest Digital Technology allowing range readings from 5-1300 yards/5-1189 meters (model# LP520KB) or 5-800 yards/5-732 meters (model# LP623SBL)\*. Measuring 1.3 x 4 x 2.9 inches, the 8-ounce Prime™ is capable of delivering extremely fast target acquisition, incredible ½ yard accuracy, and +/- 1 yard accuracy from 200 yards to the maximum range for each model. The Prime laser rangefinder also features Bushnell's patented ARC™ (Angle Range Compensation), superb optical quality, and water resistant (IPX4) construction along with EXO™ Barrier Coating.

*\*Note: You will get both longer and shorter maximum distances depending on the reflective properties of the particular target and the environmental conditions at the time the distance of an object is being measured. The color, surface finish, size and shape of the target all affect reflectivity and range. The brighter the color, the longer the range. White is highly reflective, for example, and allows longer ranges than the color black, which is the least reflective color. A shiny finish provides more range than a dull one. A small target is more difficult to range than a larger target. The angle to the target also has an effect. Shooting to a target at a 90 degree angle (where the target surface is perpendicular to the flight path of the emitted energy pulses) provides good range while a steep angle on the other hand, provides limited ranging. In addition, lighting conditions (e.g. the amount of sunlight) will affect the ranging capabilities of the unit. The less light (e.g. overcast skies) the farther the unit's maximum range will be. Conversely, very sunny days will decrease the unit's maximum range.*

## HOW OUR DIGITAL TECHNOLOGY WORKS

The Prime™ laser rangefinder emits invisible, eye safe, infrared energy pulses. The Prime rangefinder's advanced microprocessor results in instantaneous and accurate readings every time. Sophisticated digital technology instantaneously calculates distances by measuring the time it takes for each pulse to travel from the rangefinder, to the target, and back.



## PARTS GUIDE

### BATTERY ACTIVATION / BATTERY LIFE INDICATOR

**Before first use:** Remove the battery compartment cover by lifting the battery cover tab and then rotating the cover counter-clockwise. Remove and discard the red plastic disc covering the positive battery terminal, then replace the battery cover. **NOTE:** It is recommended that the CR2 3-volt lithium battery be replaced at least once every 12 months. Insert it into the compartment negative end first.

Battery Indicator Icon:

- Full charge [Battery Icon]
- 2/3 battery life remaining [Battery Icon]
- 1/3 battery Life remaining [Battery Icon]

Battery Indicator Blinks - Battery needs to be replaced and unit will not be operable.

OPERATIONAL SUMMARY

While looking through the Prime laser rangefinder, depress the Power/Fire button once to activate the display. Place the aiming circle (located in the center of the field of view) on a target at least 5 yards away, depress and hold the Fire button down until the range reading is displayed near the bottom of the display. If the display appears blurry, rotate the rubber eyecup/diopter adjustment in either direction until the display is sharp for your vision (*model LP623SBL only*). Crosshairs surrounding the aiming circle indicate that the laser is being transmitted. Once a range has been acquired, you can release the Fire button. The crosshairs surrounding the aiming circle will disappear once the Fire button has been released (i.e. the laser is no longer being transmitted). Once activated, the display will remain active and display the last distance measurement for about 15 seconds, until the display automatically switches off to extend battery life. You can depress the Fire button again at any time to distance to a new target. To re-fire, press the button down again. To use the Scan mode feature, simply hold down the Fire button for approximately 3 seconds, then move the rangefinder from object to object while keeping the Fire button depressed. This Scan mode allows the range to be continuously updated as multiple objects are targeted.

Model LP623SBL Display

1	Units (Line of Sight Distance)
2	True Horizontal Distance (ARC) ( <i>alt w/ Degree of Angle*</i> )
3	THD Indicator
4	Active Laser Indicator
5	Battery Level
6	Line of Sight Distance
7	<i>BullsEye Mode Indicator*</i>
8	<i>Brush Mode Indicator*</i>

Model LP520KB Display

*\* Model LP623SBL only*

ACTIVE LASER INDICATOR

Crosshairs (4) surrounding the aiming circle indicate that the laser is being transmitted. Once a range has been acquired, you can release the power button. The crosshairs surrounding the circle will disappear once the Power/Fire button has been released (i.e. the laser is no longer being transmitted).

UNIT OF MEASURE OPTIONS

The Prime laser rangefinder can be used to measure distances in yards (default setting) or meters. The unit of measure indicators (1) are located to the right of the line of sight distance readout (6), with Yards as the default. This can be changed to meters, affecting both primary line of sight and secondary THD/ARC distance readouts.

To switch the distance units from yards to meters:

- Model LP520KB:** start with the unit powered off, nothing displayed (remove/replace battery cover if necessary). Press the Power/Fire button and continue to hold it down until the display changes to a blinking "Y"-continue to hold the button down, and the unit indicator will switch to "M"-release the button now, and distances will now be shown in meters. To switch back to Yards, repeat this process (power off, hold fire button until blinking "M" changes to "Y").
- Model LP623SBL:** press and hold the Mode switch down until you see the "Y" start to flash, with an "M" also appearing below it. Briefly press the Mode switch so that "M" begins to flash ("Y" is now steady), then press the Fire button to confirm the change. To switch back to Yards, repeat this process, but press the Fire button to confirm when the "Y" is flashing.

ANGLE RANGE COMPENSATION (ARC )

The Prime laser rangefinder features a built-in inclinometer that solves a problem hunters have been faced with for years. Bow and rifle hunters have struggled with extreme uphill and downhill angles because of how these angles alter true horizontal distance to your target. The ARC™ solution: an integrated inclinometer provides angular data to a processor chip when targeting objects that are either uphill or downhill. This data is then combined with internal algorithmic formulas. Along with the standard "line of sight" distance, the Prime laser rangefinder's display instantly shows true horizontal distance (when fire button is released) from 10-99 yards / meters and a maximum inclination of +/- 90°.



The true horizontal distance is shown near the bottom of the display (*the Prime LP623SBL model also displays the angle in degrees, alternating with the THD*). For example, a bowhunter in a tree stand may be aiming at a deer that is downhill at a -44° relative to his position. The line of sight distance is 32 yards, but he is likely to “overshoot” the target based on that. The THD distance (compensated for the angle) reads 23 yards. That is the distance the hunter should base his shot upon.

### TARGETING MODES (LP623SBL only)

The Prime laser rangefinder model# LP623SBL can be operated in one of three available Targeting Modes, with Standard mode as the default. To select a different targeting mode, press the Mode button briefly until the desired indicator (BullsEye or Brush) appears in the display. To return to Standard mode, press Mode one more time after the Brush mode indicator appears. The targeting modes are:

- **Standard Mode with Automatic SCAN** (Display Indicator - none) This setting allows most targets to be ranged, up to 800 yards. Used for moderately reflective targets that are typical of most distancing situations. The minimum distance in the standard mode is 10 yards. To use the Automatic SCAN feature, simply hold down on the Fire button for approximately 3 seconds, then move the rangefinder from object to object while keeping the Fire button depressed. Automatic SCAN will allow the range to be continuously updated as multiple objects are targeted.
- **BullsEye™ Mode** (Display Indicator (7) - ☉) This advanced mode allows easy acquisition of small targets and game without inadvertently getting distances to background targets that have stronger signal strength. When more than one object has been acquired, only the distance of the closest object will be displayed and a crosshair will surround the BullsEye™ indicator informing the user that distance to the closer object is being displayed in the LCD.

With the rangefinder in BullsEye mode, align the aiming circle onto the object (i.e. deer) that you want distance to. Next, press and hold the Fire button and move the Aiming Circle slowly over the deer until crosshairs surround the BullsEye indicator (6). If the laser beam recognized more than one object (i.e. deer and background trees), distance of the closer object (i.e. deer) will be displayed and crosshairs will surround the BullsEye indicator informing the user that distance to the closer object is being displayed in the LCD. There may be times when only the laser beam only sees one object in its path. In this case, the distance will be displayed, but because more than one object was not acquired, crosshairs will not surround the BullsEye indicator.

- **Brush™ Mode** (Display Indicator (8) - 🌿): This advanced mode allows objects such as brush and tree branches to be ignored so that distance only to background objects are displayed. When more than one object has been acquired, distance of the farthest object will be displayed and a circle will surround the Brush indicator (7) informing the user that distance of the farthest object is being displayed in the LCD.

With the rangefinder in Brush mode, align the aiming circle onto the object that you want distance to. Next, press and hold the Fire button and move the Aiming Circle slowly over the object until a circle surrounds the Brush indicator. If the laser beam recognized more than one object (i.e. closeup tree branch and a deer in the background), distance of the further object (i.e. deer) will be displayed and a circle will surround the brush indicator informing the user that distance to the farther object is being displayed. There may be times when only the laser beam only sees one object in its path. In this case, the distance will be displayed, but because more than one object was not acquired, the circle will not surround the Brush indicator.

*TIP: While pressing the Fire button, you can move the device slowly from object to object and intentionally force the laser to hit multiple objects to ensure that you are only displaying the furthest of the objects recognized by the laser. Once the device has shut off, the unit will always default back to the last targeting mode used.*

### CLEANING AND GENERAL CARE

The lenses of your Bushnell Prime laser rangefinder are fully multi-coated for highest light transmission. As with any multi-coated optics, special care must be taken in cleaning the lenses. Follow these tips for proper lens cleaning:

- Blow away any dust or debris on the lens (or use a soft lens brush).
- To remove dirt or finger prints, clean with the supplied micro-fiber cloth rubbing in a circular motion. Use of a coarse cloth or unnecessary rubbing may scratch the lens surface and eventually cause permanent damage. The included washable microfiber cleaning cloth is ideal for the routine cleaning of your optics. Simply breathe lightly on the lens to provide a slight amount of moisture, then gently rub the lens with the microfiber cloth.
- For a more thorough cleaning, photographic lens tissue and photographic-type lens cleaning fluid or isopropyl alcohol may be used. Always apply the fluid to the cleaning cloth - never directly on the lens.

All exterior lens surfaces have our new EXO Barrier™ coating (in addition to full multi-coating). EXO Barrier, quite simply, is the best protective lens coating technology Bushnell has ever developed. Added at the end of the coating process, EXO Barrier molecularly bonds to the lens and fills the microscopic pores in the glass. The result is an ultra-slick coating that repels water, oil, fog, dust and debris - rain, snow, fingerprints and dirt will not stick. EXO Barrier is built to last: the bonded coating will not fade with the passage of time or normal wear and tear.

The rangefinder is manufactured and tested to withstand water exposure up to IPX4 standards. It is water resistant, but should not be submerged.

## TROUBLE SHOOTING

**Never disassemble your laser rangefinder. Irreparable damage can result from unauthorized service attempts, which also void the warranty.**

**If unit does not turn on, display does not illuminate:**

- Depress power button.
- Check and if necessary, replace battery. If unit does not respond to key presses, replace the battery with a good quality CR2 3-volt Lithium battery.
- Ensure the display is on the brightest setting while in sunlight. While pressing Power Button, cover the objective lenses to determine if the display is on.

**If unit powers down (display goes blank when attempting to power the laser):**

- The battery is either weak or low quality. Replace the battery with a good quality 3 -volt lithium battery (CR2).

**If target range cannot be obtained:**

- Make sure Display is illuminated.
- Make sure that the power button is being depressed.
- Make sure that nothing, such as your hand or finger, is blocking the objective lenses (lenses closest to the target) that emit and receive the laser pulses.
- Make sure unit is held steady while depressing power button.

*NOTE: The last range reading does not need to be cleared before ranging another target. Simply aim at the new target using the display reticle, depress the power button and hold until new range reading is displayed. Specifications, instructions, and the operation of these products are subject to change without notice.*

## Technical Specifications

SKU	Mag x Obj Lens Diam.	Max Range (Y/M) (Reflective Target)	Range to Tree (Y/M)	Range to Deer (Y/M)	Ranging Accuracy	Optical Coatings	Length (in/mm)	Weight (oz /g)
LP520KB	5x 20mm	1300/1189	500/457	400/366	+/- 0.5 yds	Fully-multi coated, EXO Barrier™	4.2/106	5.8/165
LP623SBL	6x 24mm	800/732	480/439	240/219	+/- 0.5 yds	Fully-multi coated, EXO Barrier™	4.1/103	5.8/165



Products manufactured on or after April 2017 are covered by the Bushnell Ironclad Warranty. The Ironclad Warranty is a full lifetime warranty that covers the lifetime of this Product. Each Product has a defined lifetime; lifetimes can range from 1 to 30 years. This Product's lifetime can be found at the website listed below and/or on the Bushnell webpage specific to this Product.

We warrant that this Product is free from defects in materials and workmanship and will meet all represented performance standards for the lifetime of this Product. If this Product isn't working properly due to a covered defect, we will, at our option, either repair or replace it and ship it back to you at no charge. This warranty is fully transferable and does not require a receipt, warranty card, or product registration. This warranty does not cover the following: electronic components; batteries; cosmetic damage; damage caused by failing to properly maintain the product; loss; theft; damage as a result of unauthorized repair, modification, or disassembly; intentional damage, misuse, or abuse; and ordinary wear and tear. This Warranty will be void if the date stamp or other serialization codes have been removed from the Product.

To view the full warranty and find details on how to request service under the warranty, go to our website at [www.bushnell.com/warranty](http://www.bushnell.com/warranty). Alternatively, you can request a copy of the warranty by calling us at 1-800-423-3537 or writing to us at one of the following addresses:

IN U.S.A. Send To:

Bushnell Holdings, Inc.  
Attn.: Repairs  
9200 Cody  
Overland Park, Kansas 66214

IN CANADA Send To:

Bushnell Holdings, Inc.  
Attn.: Repairs  
140 Great Gulf Drive, Unit B  
Vaughan, Ontario L4K 5W1

For products purchased outside the United States or Canada please contact your local dealer for applicable warranty information.

This warranty gives you specific legal rights.  
You may have other rights which vary from country to country.

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 **WARNING: This product uses a Lithium based battery. Lithium batteries can overheat and cause damage if physically abused. Do not use batteries that are damaged or show signs of physical wear.**

## FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules. Specifications and designs are subject to change without any notice or obligation on the part of the manufacturer.

**FCC ID: 2ABQG-1835**

**IC: 5830A-1835**



## FDA SAFETY

Class 1 laser product in accordance with IEC 60825-1:2007.

Complies with 21 CFR 1040.10 and 1040.11 for laser products except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

Caution: There are no user controls, adjustments or procedures. Performance of procedures other than those specified herein may result in access to invisible laser light.

## Industry Canada Statement :

This device complies with ISED's license-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

## Radiation Exposure Statement / Déclaration d'exposition aux radiations :

This device complies with the Industry Canada portable RF exposure limit set forth for an uncontrolled environment and is safe for the intended operation as described in this manual. Further RF exposure reduction can be achieved if the product can be kept as far as possible from the user's body or if the device is set to a lower output power if such function is available.

Le produit est conforme aux limites d'exposition pour les appareils portables RF pour les Etats-Unis et le Canada établies pour un environnement non contrôlé.

Le produit est sûr pour un fonctionnement tel que décrit dans ce manuel. La réduction aux expositions RF peut être augmentée si l'appareil peut être conservé aussi loin que possible du corps de l'utilisateur ou que le dispositif est réglé sur la puissance de sortie la plus faible si une telle fonction est disponible.

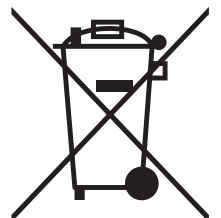
## Disposal of Electric and Electronic Equipment

*(Applicable in the EU and other European countries with separate collection systems)*

This equipment contains electric and/or electronic parts and must therefore not be disposed of as normal household waste. Instead, it should be disposed at the respective collection points for recycling provided by the communities. For you, this is free of charge.

If the equipment contains exchangeable (rechargeable) batteries, these too must be removed before and, if necessary, in turn be disposed of according to the relevant regulations (see also the respective comments in this unit's instructions).

Further information about the subject is available at your community administration, your local waste collection company, or in the store where you purchased this equipment.



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